

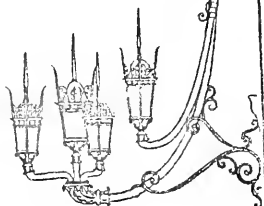
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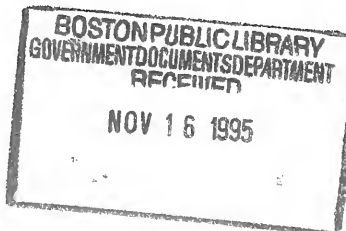
WILSON HILL ASSOCIATES

ENGINEERS, SURVEYORS, PLANNERS

541 Main Street, P.O. Box 68, Weymouth, MA 02190 (617) 337-4940

March 22, 1988

Boston Redevelopment Authority
Room 943
City Hall
One City Hall Square
Boston, MA 02201



RE: Saint Botolph Street, Harcourt to West Newton Streets

Dear Sirs:

Wilson Hill Associates is an MBE/WBE firm in Weymouth, Massachusetts. Please consider us for Boston Fenway Area, Saint Botolph Street, Harcourt to West Newton Streets - Existing Conditions Analysis, Preparation of Full Design Documents.

Our qualifications are attached for your review.

Sincerely,

Robert R. Matthews

Robert R. Matthews
Executive Director

RRM/sjt

Enclosures

Property Of
BOSTON REDEVELOPMENT AUTHORITY
Library

BOSTON FENWAY AREA

SAINT BOTOLPH STREET, HARCOURT TO WEST NEWTON STREETS

EXISTING CONDITIONS ANALYSIS,
PREPARATION OF FULL DESIGN DOCUMENTS

SERVICES FOR RESIDENT ENGINEERING

Prepared For:

Boston Redevelopment Authority
Room 943
City Hall
One City Hall Square
Boston, MA 02201

Prepared By:

Wilson Hill Associates, Inc.
541 Main Street - Suite 220
P. O. Box 68
Weymouth, MA 02190

STATEMENT OF CAPABILITIES

CIVIL ENGINEERING SERVICES

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Library

January 1988

Prepared By:

Wilson Hill Associates, Inc.
541 Main Street - Suite 220
P. O. Box 68
Weymouth, MA 02190

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- 1.2 MBE/WBE Certifications
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SECTION ONE

CORPORATE OVERVIEW

SECTION ONE

CORPORATE OVERVIEW

1.1 Corporate History

Wilson Hill Associates was founded in 1978 to provide professional planning, design, engineering and management consulting services to clients in both the private and public sectors. In the years since our founding, we have developed a strong reputation for integrity and technical excellence by virtue of work completed and in progress on over 70 contracts. To keep pace with our growing work load, our staff has expanded rapidly to over 100 professional, technical and support personnel, in offices located in Washington, D.C.; Arlington, Virginia; Deer Park, New York; and Weymouth, Massachusetts. This multi-disciplinary team of specialists in 1986 fulfilled contractual obligations of over \$8 million.

Wilson Hill's dynamic rate of growth has helped to create a corporate atmosphere characterized by excitement, creativity and motivation; all characteristics which have positively influenced contract performance, and which have enabled us to further enhance our experience portfolio.

1.2 MBE/WBE Certification

Wilson Hill Associates has received official certification by the U. S. Small Business Administration, as well as twenty-four State and/or local governments, as enumerated in Figure 1-1, as a Minority Business Enterprise (MBE) and/or a Woman-Owned Business Enterprise (WBE).

FIGURE 1-1

WILSON HILL ASSOCIATES MBE/WBE CERTIFICATIONS

<u>ORGANIZATION</u>	<u>DATE CERTIFIED</u>
U. S. Small Business Administration	8/11/78
AMIRAK	12/17/82
State of Alaska	
Department of Transportation & Public Facilities	1/6/82
State of Arizona	
Arizona Department of Transportation	3/26/82
State of California	
Metropolitan Transit Commission	6/24/82
State of Connecticut	
Department of Transportation	11/30/81
State of Florida	
Office of Transportation Administration	5/11/82
State of Georgia	
Metropolitan Atlanta Rapid Transit Authority	2/5/82
State of Illinois	
Chicago Transit Authority	8/25/82
State of Indiana	7/28/82

State of Louisiana		
City of New Orleans		
Office of Transit Administration		3/26/82
State of Massachusetts		
Department of Commerce and Development		3/25/82
State of Missouri		
Kansas city Transportation Authority		2/22/82
Bi-State Transit Authority		5/10/82
State of New Hampshire		
Department of Transportation		12/31/81
State of New Jersey		
Department of Transportation		2/2/82
New Jersey Transit		2/17/82
Port Authority of New York/New Jersey		7/23/81
State of New York		
Metropolitan Transportation Authority		4/8/82
Niagara Frontier Transportation Authority		3/29/82
Rochester-Genessee Regional Transportation Authority		8/6/82
State of North Carolina		
N.C. Department of Transportation		8/20/82
State of Ohio		
Greater Cleveland Regional Transit Authority		2/3/82
State of Oregon		
TRI-MET - Portland Area		3/5/82

State of Pennsylvania

Port Authority of Allegheny County 2/5/83

Southeastern Pennsylvania Transportation Authority 6/1/82

State of Rhode Island

Department of Economic Development 9/27/82

State of Texas

Dallas Office of Minority Business Opportunity 1/16/82

Houston Metropolitan Transit Authority 3/13/82

State of Vermont

Vermont Agency of Transportation 2/9/82

State of Virginia

Department of Highways and Transportation 1/23/83

State of Washington

Municipality of Metropolitan Seattle 2/1/83

District of Columbia

Washington Metropolitan Transit Authority 3/26/82

As a firm, we are deeply committed to the provision of employment opportunities for minorities and women in professional and support positions.

1.3 Corporate Organization

Wilson Hill is divided administratively into four (4) separate yet interdependent groups. These groups and their capabilities are:

- .. Transportation Systems Group - Civil Engineering Services in design, transportation and traffic engineering, planning/feasibility studies and construction management - (refer to Figure 1-2)
- .. Hill Industries - Design and fabrication of steel and aluminum metal assemblies and systems.
- .. Advanced Systems Group - Design, development, implementation and management of computer systems.
- .. Training Technology Group.

It is the experience and qualifications of the Transportation Systems Group (TSG) which forms the focus for this Statement of Capabilities.

FIGURE 1-2

CIVIL ENGINEERING SERVICES

Provided by the

TRANSPORTATION SYSTEMS GROUP

DESIGN

- .. Conceptual, Preliminary and Final Design of Highways, Boat Ramps, Parking Facilities, Bike Trails and other Civil Engineering Structures and Systems.

TRANSPORTATION AND TRAFFIC ENGINEERING

- .. Highway Capacity Analysis
- .. Traffic Accident Analysis
- .. Parking Facilities
- .. Bridge Replacement Studies

PLANNING AND FEASIBILITY STUDIES

- .. Environmental Impact Analysis and Assessment
- .. Alternatives Analysis of Routes and Modes
- .. Emergency Mobilization Planning
- .. Financial Analysis

CIVIL ENGINEERING DESIGN PHASE EXPERIENCE

- .. Waste Treatment Systems
- .. Hydrology and Drainage Design
- .. Water Systems
- .. Airport Design
- .. Road Design
- .. Street and Sidewalk Design
- .. Civil Structures

CONSTRUCTION ENGINEERING

- .. Contract Packaging and Supervision
- .. Constructability Analysis
- .. Contractor Submittal Approval and Control
- .. Cost Estimating
- .. Contract and Job Scheduling
- .. Field Inspection and Coordination
- .. Job Meetings
- .. Detailed Cost and Schedule Control

SECTION TWO

TRANSPORTATION SYSTEMS GROUP

SECTION TWO

TRANSPORTATION SYSTEMS GROUP

2.1 General Description

The Transportation Systems Group of Wilson Hill employs a staff of fifteen to twenty professionals located in an administrative office in Weymouth, Massachusetts and project offices in the Boston area wherever the project requires. The Transportation Systems Group can draw on a wealth of diverse experience in its professional personnel. The problem-solving orientation of these TSG employees has fostered creative approaches to a number of civil engineering disciplines including highway, environmental systems and parking facility design, traffic and transportation improvements engineering, environmental studies/assessments and construction management. Brief descriptions of representative projects which have been performed by our staff in the area of civil engineering are contained in Section 2.2.

2.2 Selected Projects

The following projects that might be considered representative of work performed by TSG personnel in the areas of Design:

- .. Final design for State Route 4, between Fairhaven and Castleton, VT.;
- .. Highway, sidewalk and intersection layout Essex Junction, VT.;
- .. Final design for sewer outfall and headwall construction, Essex Junction, VT.;
- .. Design for bridge reconstruction and widening of North Street, Essex Junction, VT.;
- .. Runway safety area extension, Westerly State Airport, Westerly, Rhode Island;
- .. Camp Edwards Emergency Mobilization Plan, Camp Edwards, MA.;
- .. Projection of peak hour accumulation and evaluation of adequacy of ramp design for a 2,000 car parking garage to be located in the proposed South Station Transportation Center, Boston, MA.

TRANSPORTATION AND TRAFFIC ENGINEERING

TSG employees possess particularly strong experience in the areas of traffic and transportation engineering, as evidenced by the projects below:

- .. Development of a traffic circulation plan for the Town of Orleans, MA., including analysis of proposed Old Colony Way Extension;
- .. Traffic capacity analysis and identification of obsolete design features in the Route 6 Corridor, Eastham, MA.;
- .. Identification of and prioritization of improvements for high hazard intersections in Barnstable County, MA.;
- .. Predictions of regional shopping trip volumes and travel patterns to be generated by the proposed 1.1 million square foot North Haven Shopping Mall, North Haven, CT.;
- .. Analysis of projected traffic and transit impacts associated with a proposed \$150 million retail/residential/office complex to be built in the Wellington area of Medford, MA. Analysis included examination of major grade separation improvements in the location of the Wellington Circle intersection;
- .. Traffic impact studies and intersection capacity analyses for Copley Place, a \$400 million retail/office/hotel complex to be built in downtown Boston, including assessment of parking supply adequacy, identification of hazard areas and development of recommendations for alleviating significant vehicular-pedestrian conflicts;
- .. Performance of field inspections and traffic capacity analyses of designated evacuation routes in the 150 square mile Emergency Planning Zone surrounding the James A. Fitzpatrick/Nine Mile Point I Nuclear Power Station in Oswego, New York, as part of an overall Emergency Preparedness Plan;
- .. Development of parking policy recommendations for the downtown area of Portland, ME., based on surveys of parking supply and demand, land use and local employment. Recommendations included locations and amounts of additional parking required and financing, pricing and enforcement strategies needed to eliminate existing parking problems.

PLANNING AND FEASIBILITY STUDIES

TSG employees have also participated in general planning and feasibility studies for major public and private developments, including environmental assessments, alternatives analyses and financial studies. Representative projects in these areas include the following:

- .. Examination of impact on wetlands and other environments regarding sensitive areas caused by the proposed extension of Old Town House Road through the Towns of Barnstable and Yarmouth, MA.;
- .. Projection of noise and air quality impact associated with restoration of rail passenger service to Cape Cod from New York and Boston;
- .. Examination of projected environmental impacts in alternative corridors for State Route 2 in Franklin County, MA.;
- .. Development of a comprehensive air quality protection plan for Barnstable County, MA., in accordance with the State Implementation Plan Requirements of the Clean Air Act;
- .. Collection of data regarding potential environmental impacts of widening and extending State Route 6 through the Town of Dennis to the Eastham Rotary in Barnstable County, MA.;
- .. Development of a Master Plan for expansion of the Albany County, NY Airport, including projections of future air traffic demand and terminal and parking facilities needed to meet this demand;
- .. Analysis of potential park-ride locations for the Bi-State Regional Transportation Authority, St. Louis, MO.'
- .. Capacity examination of existing bus facilities and projections of future terminal/parking needs for Barnstable County, MA.;
- .. Projections of parking and terminal facilities requirements for the restoration of rail passenger service to Cape Cod from New York and Boston.

CIVIL ENGINEERING DESIGN

In the area of Civil Engineering Design, Wilson Hill Associates employees have participated in the following projects:

- .. Water and wastewater systems for nearly 100 subdivisions of varying sized up to 250,000 Gallons Per Day;
- .. Drainage Systems for large civil projects;
- .. Roads, streets, sidewalks and trails;
- .. Airports including runways, lighting, service areas and safety areas.

CONSTRUCTION ENGINEERING

In the areas of construction engineering, Wilson Hill personnel have fulfilled interagency liaison/public participation roles and have provided equipment and materials coordination, CPM scheduling and on-site management roles in the following projects:

- .. Bridge reconstruction on the MBTA Gloucester Branch Commuter Rail Line as part of the Authority's overall Commuter Rail Improvement Program;
- .. Storm sewer and sewer separation construction in Morrisville, VT.;
- .. Construction of the public water supply system, Town of Newport, VT.;
- .. Construction of tertiary sewerage treatment plant, New Canaan, VT.

In addition to primary civil engineering skills, Wilson Hill staff are well-versed in engineering support skills such as surveying, estimating, drafting and field inspection.

In summary, the varied and wide-ranging talents of Wilson Hill personnel are being applied to all phases of the civil engineering process - planning, design and construction. The firm invites inquiries regarding our capabilities.

SECTION THREE

STANDARD FORMS 254/255 & BROCHURES



254

STANDARD FORM 254 (REV 10-83)

10. Profile of Firm's Project Experience, Last 5 Years

Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 046	7	533	11)			21)		
2) 107	7	100	12)			22)		
3) 005	2	90	13)			23)		
4) 006	2	50	14)			24)		
5) 102	5	100	15)			25)		
6) 087	8	1,000	16)			26)		
7) 201/202	70	23,000	17)			27)		
8)			18)			28)		
9)			19)			29)		
10)			20)			30)		

11. Project Examples, Last 5 Years

Profile Code	"P", "C", "JV", or "IE"	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
046 107	P	1 3-R Highway Improvements Turnpike Avenue Portsmouth, RI	Rhode Island Department of Transportation Providence, RI	100	1985
046 107	P	2 3-R Highway Improvements Birch Swamp Road Warren, RI	Rhode Island Department of Transportation Providence, RI	100	1985
046 107		3 3-R Highway Improvements State Street Bristol, RI	Rhode Island Department of Transportation Providence, RI	100	
046 102 107	P	4 3-R Highway Improvements Stafford Road Tiverton, RI	Rhode Island Department of Transportation Providence, RI	250	1986
046 107	F	5 3-R Highway Improvements Franklin Street Bristol, RI	Rhode Island Department of Transportation Providence, RI	50	1986
046 102 107	P	6 3-R Highway Improvements Union Street Portsmouth, RI	Rhode Island Department of Transportation Providence, RI	100	1985
046 102 107	P	7 3-R Highway Improvements Vernon Street Warren, RI	Rhode Island Department of Transportation Providence, RI	33	1986

006 102	JV	8	Apron and Taxiway Stub Design Danbury Municipal Airport Danbury, CT	Danbury Municipal Airport Danbury, CT	200	1985
102	JV	9	Field Inspection North Central Airport Lincoln, RI	North Central Airport Lincoln, RI	30	1984
005 006 102	JV	10	Field Survey & Design Runway Extension Barnstable Municipal Airport	Barnstable Municipal Airport Hyannis, MA	200	1985
005	JV	11	Runway Lighting Knox County Regional Airport	Knox County Regional Airport Rockland, ME	100	1986
046 107	IE	12	New Jersey TOPICS Program Morris County, NJ	Morris County Freeholders Morristown, NJ	15,000	1980
046 107	IE	13	Morris County Inspection Improvement Program Morris County, NJ	Morris County Freeholders Morristown, NJ	300	1976
046 107	IE	14	Morris County Federal Aid Reconstruction Program Morris County, NJ	Morris County Freeholders Morristown, NJ	2,000	1975
107	IE	15	Prioritization of Federal Aid Highway System Improvements County of Barnstable, MA	County of Barnstable Barnstable, MA	25,000	1981
046 107	IE	16	Traffic Capacity Analysis and Obsolete Design on Route 6 Town of Eastham, MA	Commonwealth of Massachusetts Boston, MA	3,000	1979
107	IE	17	Corridor Planning Study for the Proposed Extension of Old Town House Rd. Barnstable & Yarmouth, MA	Cape Cod Planning & Economic Development Commission Barnstable, MA	25	1979
107	IE	18	Transportation Impact of Copley Place Boston, MA	Urban Investment & Development Corporation Chicago, IL	35	1980
107	IE	19	Conceptual Design Intersection Route 28/6-A/Bridge Rd Town of Orleans, MA	Town of Orleans Orleans, MA	150	1983

107	IE	20	Corridor Planning Route 2 in Franklin County	Greenfield, MA			
046	C	21	Bi-State Park & Ride Development Program	Bi-State Transit Authority St. Louis, MO	20	1982	
046	IE	22	Downtown Area Parking Survey and Implementation Program	Portland Areawide Comprehensive Transportation Study	25	1981	
107	IE	23	Projection of Traffic Flow and Traffic Patterns Resulting from a New Regional Shopping Mall	North Haven Shopping Mall North Haven, CT	25	1982	
107	IE	24	Traffic Capacity Analysis of Evacuation Route Surrounding Nuclear Power Station	Power Authority of the State of NY New York, NY	30	1980	
201	P	25	Analysis of the Public Transportation Needs of the Handicapped	U.S.D.O.T./Urban Mass. Transportation Administration Oswego, NY	534	1982	
201	P	26	RUCUS II Research & Development Automated Bus Schedule/SEPTA	U.S.D.O.T./Transportation Center Kendall Square, Cambridge, MA	120	1983	
202	C	27	Management Information System for the MBTA	Massachusetts Bay Transportation Authority Boston, MA	120	1983	
202	C	28	Maintenance Management Information System for New Jersey Transit	New Jersey Transit Newark, NJ	60	1983	
202	P	29	Processing and Analysis of Section 15 Data	U.S.D.O.T./Transportation Systems Center Kendall Square, Cambridge, MA	250	1983	
107	IE	30	Prioritization of High Hazard Intersections County of Barnstable, MA	County of Barnstable Barnstable, MA	2,500	1980	
12. The foregoing is a statement of facts					Date: 8/15/87		
Signature: <i>Robert R. Matthews</i>					Robert R. Matthews Executive Director		

STANDARD
FORM (SF)

255

Architect-Engineer
Related Services
for Specific
Project

1. Project Name / Location for which Firm is Filing:

3. Firm (or Joint-Venture) Name & Address

Wilson Hill Associates, Inc.
1220 L Street, N.W.
Suite 200
Washington, D.C. 20005

2a. Commerce Business
Daily Announcement
Date, if any:

N/A

2b. Agency Identification
Number, if any:

N/A

3a. Name, Title & Telephone Number of Principal to Contact

Robert R. Matthews
Executive Director
(617) 337-4940

3b. Address of office to perform work, if different from item 3

Wilson Hill Associates, Inc.
Transportation Systems Group
541 Main St, Suite 220, P. O. Box 68
Weymouth, MA 02190

4. Personnel by Discipline:

A. Weymouth, MA

3 Administrative
1 Architects
5 Chemical Engineers
2 Civil Engineers
2 Construction Inspectors
2 Draftsmen
1 Ecologists
1 Economists

Electrical Engineers
1 Estimators
1 Geologists
1 Hydrologists
1 Interior Designers
1 Landscape Architects
Mechanical Engineers
Mining Engineers

Oceanographers

2 Planners: Urban/Regional
1 Sanitary Engineers
1 Soils Engineers
1 Specification Writers
4 Structural Engineers
1 Surveyors
1 Transportation Engineers

B. Washington, D. C.

9 Transportation Planners
24 Operations Research
13 Statisticians
3 Human Factors Engineers
74 Computer Scientists
17 Administrative & Marketing

160 Total Personnel

5. If submittal is by Joint-Venture list participating firms and outline specific areas of responsibility (including administrative, technical and financial) for each firm:
(Attach SF 254 for each if not on file with Procuring Office.)

5a. Has this Joint-Venture previously worked together? ☐ yes ☐ no

7. Brief Resume of Key Persons, Specialists, and Individual Consultants Anticipated for this Project

a. Name & Title:

Bill Chisholm
Chief Draftsman

b. Project Assignment:

Responsible for topographic survey, field layout and resident engineering

c. Name of Firm with which associated:

Wilson Hill Associates, Inc.

d. Years experience: With This Firm 1 With Other Firms 5

e. Education: Degree(s) / Year / Specialization

Wentworth Institute of Technology, 1978-80, Surveying
Boston Architectural Center (currently attending),
candidate for Bachelor of Architecture degree.

f. Active Registration: Year First Registered/Discipline

a. Name & Title:

James McNally
Project Engineer

b. Project Assignment:

Responsible for topographic survey, field layout and residential engineering

c. Name of Firm with which associated:

Wilson Hill Associates, Inc.

d. Years experience: With This Firm 1 With Other Firms 2

e. Education: Degree(s) / Years / Specialization

BSCE - Rhode Island University - 1985

f. Active Registration: Year First Registered/Discipline

g. Other Experience and Qualifications relevant to the proposed project:

Mr. Chisholms academic credentials in surveying from Wentworth Institute, along with 5+ years of experience in construction surveying, highway and subdivision layout, make him eminently qualified to perform the necessary topographic survey and field layout for this project.

g. Other Experience and Qualifications relevant to the proposed project:

7. Brief Resume of Key Persons, Specialists, and Individual Consultants Anticipated for this Project

a. Name & Title:

Robert R. Matthews, Executive Director

b. Project Assignment:

Overall Direction and Supervision of Project

c. Name of Firm with which associated:

Willson Hill Associates, Inc.

d. Years experience: With This Firm 1—

With Other Firms 29

e. Education: Degree(s)/Year/Specialization

BSCE, 1954, North Carolina State University
Mgmt. Cert., 1961, Air University (USAF)
Masters Bus. Ad., 1971, Pacific Lutheran University

f. Active Registration: Year First Registered/Discipline

1962

g. Other Experience and Qualifications relevant to the

proposed project: As Executive Director for Wilson Hill, Mr. Matthews has overall responsibility for the Conceptual and Final Design of seven (7) 3-R Highway Improvement Projects in several Rhode Island Communities. These project encompass all aspects of highway design from the initial development of Conceptual Engineering Recommendations to Final Design and PS&E.

Mr. Matthews as City Engineer for Niagara Falls, NY, provided Turn-key Engineering Services on the following projects:

- .. Wastewater Treatment Plant .. Library
- .. Highway/Sidewalk/Intersection Design .. Fire Station
- .. Water Treatment Plant .. Hazardous Waste Containment
- .. Sewer Outfall & Headwall Construction
- .. Highway/Bridge Reconstruction

Mr. Matthews served as Resident Engineer/Project Manager for Tertiary Sewerage Treatment Facility in Utica, NY. Mr. Matthews also was a member of a Transition Team that formed Seattle Metro and Supervisor of Facility Engineering for the Boeing Company.

a. Name & Title:

Raul Ontano - Project Engineer

b. Project Assignment:

Overall Supervision of the Project

c. Name of Firm with which associated:

Wilson Hill Associates, Inc.

d. Years experience: With This Firm 1—

With Other Firms 10-

e. Education: Degree(s)/Years/Specialization

B.S. Architectural Engineering - University of Buenos Aires - 1970. Master of Science in Architecture - University of Buenos Aires - 1977.

f. Active Registration: Year First Registered/Discipline

1980/Architect/Engineer - Argentina

g. Other Experience and Qualifications relevant to the

proposed project:
Ten years in professional Architectural-Engineering Supervision.

8. Work by Firm or Joint Venture Members which Best Illustrates Current Qualifications Relevant to this Project (List not more than 10 Projects)

a. Project Name & Location	b. Nature of Firm's Responsibility	c. Owner's Name & Address	d. Completion Date (actual or estimated)	e. Estimated Cost (in thousands)		Work for which Firm was/is responsible
				Entire Project		
(1) Apron & Taxiway Stub Design Danbury, CT	Survey & Design Service	Danbury Municipal Airport Danbury, CT	1985	\$ 200		90%
(2) Field Inspection Lincoln, RI	Field Inspection for New Taxiway	North Central Airport Lincoln, RI	1964	\$ 30		5%
(3) Field Survey & Design Runway Extension Hyannis, MA	Surveying and Design	Barnstable Municipal Airport Hyannis, MA	1986	\$ 200		10%
(4) Runway Lighting Rockland, ME	Design	Knox County Reg'l Airport Rockland, ME	1986	\$ 100		12%
(5) Extension of Cargo Apron Beverly, MA	Design	Beverly Municipal Airport Beverly, MA	1986	\$ 150		100%
(6) Heliport Pittsburgh, PA	Planning and Design	Pittsburgh Municipal Airport Pittsburgh, PA	1986	\$1,000		10%
(7) 3-R Highway Improvements Birch Swamp Road Warren, RI	Conceptual and Final Design/Highway Reconstruction	Rhode Island Department of Transportation Providence, RI	1986	\$ 800		100%
(8) 3-R Highway Improvements Stafford Road Tiverton, RI	Conceptual & Final Design/Highway Reconstruction/Signalization	Rhode Island Department of Transportation Providence, RI	1986	\$1,500		100%
(9) 3-R Highway Improvements Union Street Portsmouth, RI	Conceptual & Final Design/Highway Reconstruction/Signalization	Rhode Island Department of Transportation Providence, RI	1986	\$1,200		100%
(10) 3-R Highway Improvements Franklin Street Bristol, RI	Conceptual & Final Design/Highway Reconstruction	Rhode Island Department of Transportation Providence, RI	1986	\$ 400		100%

10. Use this space to provide any additional information or description of resources supporting your firm's qualifications for the proposed project

Wilson Hill Associates, an MBE/WBE firm founded in 1978, has rapidly gained a strong reputation for providing quality services to clients in the fields of planning, engineering and management. In the years since our inception, we have grown to a company of 100 professional, technical and support personnel. Our team fulfilled contractual obligations of over \$9 Million in 1987 to clients ranging from federal agencies to local authorities and private companies.

The Transportation Systems Group (TSG) located in Weymouth, Massachusetts, which consists of between 11 and 20 employees, was established to provide Highway & Airport Design Services as well as transit management services.

11. The foregoing is a statement of facts.

Signature: *Robert R. Matthews* Typed Name and Title: Robert R. Matthews Executive Director

Date:

8/15/87

CONSTRUCTION ENGINEERING

Wilson Hill Associates, an MBE/WBE firm founded in 1978, has rapidly gained a strong reputation for providing quality services to clients in the fields of transportation planning, transportation engineering, and construction management. In the years since our inception, we have grown to a company of almost 120 professional, technical and support personnel located in offices in Washington, D.C., Arlington, VA, Deer Park, NY and Weymouth, MA. Our team of transportation engineers, computer scientists, operations research analysts and policy analysts fulfilled contractual obligations of over \$9 million in 1986 to clients ranging from Federal agencies to local transportation authorities and private companies. Our computer orientation has provided an atmosphere for creative approaches to problem solving in a select number of disciplines.

One such discipline is the practice of construction engineering, utilizing the CRITICAL PATH METHOD (CPM). This approach to large-scale engineering projects treats the planning, design and construction phases as integrated and interdependent tasks within a total construction system. Under this systems approach, interactions between construction cost, quality and completion schedule are carefully examined so that a project of maximum value is realized in the most economic time frame using resources of affordable cost. The application of construction engineering evaluation techniques has resulted in the savings of billions of dollars in construction costs nationwide in recent years. Many Federal agencies and local governments now require the construction engineering approach to projects which they sponsor.

CPM consists of three phases: a Planning Phase, a Scheduling Phase and a Control-Monitor Phase.

CPM - THE PLANNING PHASE

The Planning Phase is by far the most important. It is also the most time consuming requiring perhaps 60% of the total effort required in the use of CPM. The Planning Phase gives the contractor a dry-run on the construction of the facility.

CPM - THE SCHEDULING PHASE

In the Scheduling Phase, the input information prepared and included in the Planning Phase is used to produce a schedule for the activities in the project. By allowing the computer to do the arithmetic necessary, the schedule can be produced faster, more accurately, and less expensively than by doing the job manually. One also with the computer, can react quickly and inexpensively to unforeseen developments in the project. If a computer is used, the Scheduling Phase involves only about 10% of the total effort involved in the successful use of CPM.

This Phase of the construction engineering approach develops a progressively more detailed schedule for completion of the given project. From this schedule, all project tasks can be identified and associated with their respective early and late start and finish dates. Resources required, criticality to achievement of on-time project completion and estimated cost. The development of such schedules lends itself well to computer applications. Wilson-Hill technical specialists and operations analysts have considerable experience in the development of such computerized critical path schedules and PERT-chart analyses for a number of different large-scale engineering projects, including highway construction, railroad track rehabilitation and sewerage treatment plant construction.

CFM - THE CONTROL-MONITOR PHASE

The Control-Monitor Phase implies, and for all practical purposes requires the use of an electronic computer. Flexibility and prompt recalculations due to changed conditions are the keys to a successful CFM program. This Phase consists of 30% of the total expended for CFM. In this Phase, the contractor is supplied with Time Status Reports, Cost Status Reports, Requisition Back-Up Reports and Payment Documents.

Wilson Hill personnel posses broad capabilities in the establishment of management information systems for progress reporting during construction. By identifying any variances between current tasks and those shown on the detailed project schedule, producing cash flow as overruns and underruns, such a system is an invaluable tool for the project sponsors in making day-to-day policy decisions during construction.

INTERAGENCY LIAISON AND COMMUNITY PARTICIPATION

Another critical Ingredient in the construction engineering process is the provision of communications links between architect/designer, owner or sponsor, contractor/builder and various public regulatory agencies or public/private interest groups having a stake in project development. Wilson Hill personnel have in the past fulfilled this internal liaison/public participation function on a number of large-scale projects. The development of certain of these projects has involved Wilson Hill technical personnel in consensus-building activities with representatives of opposing factions. To promote and maintain public involvement, these personnel have initiated the following activities: formal and informal meetings with planning advisory groups, community action coalitions and public officials; media communications, newsletter publications; project briefings and workshops and the conduct of public

informational meetings. Wilson Hill personnel have also been responsible for planning and carrying out public ceremonies commemorating the initiation or completion of certain projects.

In summary, the varied and wide-ranging talents of Wilson Hill personnel are being applied to all phases of the construction engineering process - planning, scheduling and control-monitoring, while not interfering with the Client/Contractor/Management/Responsibility relationship. The firm invites inquiries concerning our capabilities in this area. Please direct these inquiries to:

Mr. Robert R. Matthews
Executive Director
Wilson Hill Associates
Transportation Systems Group
P.O. Box 68
Weymouth, MA 02190

(617) 337-4940

CIVIL ENGINEERING

Wilson Hill Associates, a certified MBE/WBE firm founded in 1978, has rapidly gained a strong reputation for providing services to clients in the fields of transportation analysis, civil engineering and management consulting. In the years since our inception, we have grown to a company of nearly 120 professional technical and support personnel. Our headquarters, located in Washington, D.C., is complemented by field offices in Arlington, VA, Deer Park, NY and Weymouth, MA. From these offices, our team of engineers, scientists and research analysts fulfilled contractual obligations of over \$9 million in 1986 to clients in the probate and public sectors. Our problem-solving orientation has fostered creative approaches to projects in a select number of disciplines.

One such discipline is civil engineering. Wilson Hill technical personnel have participated in the planning, design and development of a number of major civil engineering projects, including roadways, intersections, railroads, shopping malls, bridges, water and sewerage treatment facilities. Specific skills of these personnel include:

- . traffic engineering and highway and intersection design,
- . parking facility demand analysis and design,
- . cost estimation,
- . critical path scheduling and analysis for major development projects,
- . environmental impact analysis,
- . waste management.

In addition to these primary design skills, Wilson Hill staff stand ready to provide support in ancillary disciplines such as surveying, equipment and materials coordination, drafting and on-site management.

For several recent development projects, WHA personnel have also fulfilled internal liaison/public participation roles and have promoted public involvement in the design process through meetings with advisory groups, community action coalitions and public officials. In addition, these personnel were also instrumental in the publication of newsletters, as well as the conduct of project briefings and workshops.

In summary, the varied and wide-ranging talents of Wilson Hill personnel are being applied to all phases of the civil engineering process - planning, design and construction. The firm invites inquiries regarding our capabilities in this area. Please direct these inquiries to:

Mr. Robert R. Matthews
Executive Director
Transportation Systems Group
Wilson Hill Associates
P.O. Box 68
Weymouth, MA 02190

(617) 337-4940

SECTION FOUR

RESUMES

ROBERT R. MATTHEWS

POSITION: DIRECTOR, TECHNICAL SERVICES GROUP

EDUCATION: BSCE, North Carolina State University 6/54

MBA, Pacific Lutheran University 12/71

PROFESSIONAL EXPERTISE:

- .. 35 years experience in Program Management, Project Management, Planning, Engineering, Construction and Operation of Civil Projects in Transportation, Environmental, Water Resources, Comprehensive Planning, Subdivisions, Industrial Facility Management, Municipal Management and Military Management.
- .. 30 years experience in Civil Design, Construction and Operation.
- .. 25 years experience as Professional Civil Engineer.
- .. 25 years experience in Supervisory positions.
- .. 16 years experience in Project Management.
- .. 15 years experience as a Sub-professional and Technician in Surveying, Carpentry, Plumbing, Steel Working and Millwrighting.
- .. 12 years experience in Environmental Engineering (Land, Air and Water).
- .. 10 years experience in Transportation System Development, Specification, Planning, Start-up and Operation.
- .. 8 years experience in System Integration.
- .. 8 years experience in Facilities Management.
- .. 8 years experience in Scientific Systems Development.
- .. 8 years experience in Program Management.
- .. 8 years experience in Systems Engineering.
- .. 4 years experience in Configuration Management.
- .. 4 years experience in Weapon Systems Logistics.
- .. 4 years experience in Feasibility Studies.
- .. 4 years experience in Requirements Analysis
- .. 2 years experience in System Life Cycle.



ROBERT R. MATTHEWS

KEY ACCOMPLISHMENTS:

- .. Successfully managed multi-task, multimillion dollar projects.
- .. Successfully coordinated multi-party contracts and subcontracts.
- .. Completed three large environmental control projects on time.
- .. Developed first industrial pretreatment plan for sewerage approved by State of New York.
- .. Developed and maintained logistical support systems to national and international programs.

TECHNICAL EXPERIENCE:

MANAGEMENT Project Manager for Minuteman Base prototype, Bomarc Base prototype, Mississippi Saturn test site; construction site manager of US Naval facilities in Hampton Roads, key shipyard construction, chemical plant construction, sugar refinery and mining facilities radar sites wastewater and water, treatment plants, transportation facilities and hazardous waste remediation. Configuration Manager - AWACS, SRAM and SATURN V.

ENGINEERING Project Engineer for airstrips and radar site installations, municipal utilities, industrial facilities, subdivisions, weapon system basing, fire station, city street additions, library, ore smelters, chemical plants and environmental projects.

TECHNICIAN Superintendent on compressor station, pipeline, mining, sugar plant and chemical plant projects. Surveyor for highway, railroads and mining projects. Carpenter, millwright and steel worker, operating and maintaining facilities.

ROBERT R. MATTHEWS

EXPERIENCE SUMMARY

1987 to Present

WILSON HILL ASSOCIATES, INC.
Chief Engineer/Director

- .. Wilson Hill Associates, Inc. - Chief Engineer and Manager of Technical Service Projects in the Weymouth, MA Office - Currently Mr. Matthews is the Chief Engineer and Director for the approximately 25-man engineering, surveying and planning office in Weymouth, MA on Boston Harbor's south shore. He is currently serving federal, state, county, Municipal and private clients in Rhode Island, Massachusetts and Maine. The office is equipped with computer augmented drafting systems and computerized business and office systems; yet it maintains that personal relationship and commitment to clients so important to project success. Our clients profit from this association.

Mr. Matthews is able to technically supervise subdivisions and other development projects; environmental projects including waste and hazardous material management, water quality management, water resources development, air quality studies and improvements; transportation projects including roads, railroads, airports, mass transit and traffic; civil projects including earth moving, waterfront, hydrology and drainage; industrial projects including equipment purchase and installation; and technical management of projects from the beginning through construction, start-up and operation.

Mr. Matthews has an excellent local staff to service these projects, but he can augment any project effort with support from several Wilson Hill Associates, Inc., groups located in Washington, D.C. in this manner.

1986-1987

ENVIROTECH OPERATING SERVICE
Regional Operating Manager

- .. Envirotech Operating Service, Mr. Matthews was the Northeast Regional Manager for this San Mateo, California firm engaged in operating and maintaining water and wastewater plants under contract to municipal and industrial owners. The Northeast region extended from Maine to Virginia and provided service to 17 clients. Each contract required program establishment with regulatory agencies and the client, staffing for operation and maintenance activities, disposal of sludge agreements, purchasing of supplies, equipment and services. Employees had to be certified by regulatory agencies, so training programs, maintenance programs,

ROBERT R. MATTHEWS

business programs and operating programs were devised, individualized and implemented. Mr. Matthews supervised approximately 175 persons at 17 different locations, with a regional staff of six professionals.

1978-1986

CITY OF NIAGARA FALLS
Commissioner of Public Works

- .. City of Niagara Falls, Mr. Matthews had full responsibility for technical management for the city manager. This included project management, engineering, construction start-up and operation and maintenance of all municipal facilities. This responsibility included the functions of contract administration, construction management, equipment purchase, purchasing, finance, accounting, planning, engineering, community development, building inspection, traffic engineering, personnel, public relations, industrial relations, training, chemical laboratories, materials laboratories, weights and measures, surveying and safety.

Activities included working with funding and regulatory agencies to secure permits and funds for street and sidewalk work, water and wastewater facilities, parks and recreation facilities, coastal management facilities, public buildings and public works, transportation facilities, convention facilities, waste disposal facilities, hazardous waste remediation projects, subdivision projects, industrial plants and parks, airport facilities and parking facilities.

This position included supervision of between 300 and 350 persons including engineers, laboratory technicians, surveyors, accounting and business administrators, clerical, planners, inspectors, operators, janitors, carpenters, plumbers, pavers, erectors, foresters, greenskeepers and general laborers. The workers belonged to civil service and labor unions for which labor contracts were negotiated, training programs devised and implemented and testing programs devised and maintained.

Financial structures were devised and financial health maintained through rate design and setting, borrowing and investing and strict budget adherence.

Schedules were maintained by identifying critical decision points and coordinating decisions necessary to devise realistic schedules, then strictly adhering to schedule requirements.

ROBERT R. MATTHEWS

Developed ordinances for use of city facilities including snow emergencies, industrial sewer use, parking, transportation, traffic, etc.

Project Engineer for urban renewal projects directly responsible to Urban Renewal Board.

Supported planning board, architectural board, utility board and plumbing board, technically, Reviewed applications and made recommendations. Supported the tax assessor with engineering and accounting. Provided construction management for all city projects. Provided professional engineering review of all projects. Provided technical court room support to city attorneys.

- .. Attended Vanderbilt University course on Hazardous Waste Management.
- .. Attended University of Buffalo courses on Effects at the Love Canal.
- .. Attended Canisius College courses on Chemical Effects.
- .. Project Officer for Remediation of Love Canal and four other failed chemical dumps.

1977-1978

FREEPORT WATER AND SEWER COMMISSION
Manager

- .. Freeport Water and Sewer Commission, Mr. Matthews was responsible to a five-man board for water and sewer service to 20,000 accounts. This included supervising approximately 65 persons including engineers, lab technicians, superintendents, accountants, operators and maintenance men.

Mr. Matthews had full responsibility for management, engineering, construction, planning, contract administration, finance, billing and collection, accounting, personnel, safety, training, public relations, industrial relations and operations and maintenance.

Implemented an industrial relations program of private industry advisors to key public employees.

Controlled land development by private developers to adhere to comprehensive planning by close association and collaboration with local engineering firms.

- .. Attended University of Wisconsin courses on Water Resource Development.

ROBERT R. MATTHEWS

- .. Taught at Southern Illinois University Operator's School.
- .. Organized an environmental seminar at Highland Community College to coordinate efforts of civic clubs with environmental groups. This was a very successful endeavor in defusing environmental concerns in the community.

1971-1977

MUNICIPALITY OF METROPOLITAN SEATTLE
Capital Projects Administrator

- .. Municipality of Metropolitan Seattle, Responsible to an Executive Director and a 33-man Council for Management and Financing Capital Projects necessary to restore pristine quality to the waters of Lake Washington and to plan and start-up a countywide transit system.

Full responsibility for planning, construction, contract development, grant administration, contract administration, economic analysis, cost estimating, rate structures, project budgeting, scheduling, inspection, change preparation and project reporting.

Financial responsibility included rate structuring, grant application, cash flow planning, investment of funds and keeping the Council abreast of budget submittals.

Social and environmental impact assessments were provided to the Council and regulatory agencies. A public involvement program was implemented to facilitate nearly a billion dollars in capital improvements.

- .. A technical group was established to research bus procurement, fuel alternatives, maintenance sites, routes and schedules. A similar group was assessing closing of 23 sewerage treatment plants and opening of two large regional plants and appurtenant sewerage.
- .. Represented the municipality in Congressional hearings on environmental law developments. Worked with the Governor and Senators in establishing environmental strategies. Stayed close to the University of Washington and its community development activities.
- .. Attended several short courses on fire, earthquake, storm and vandalism design. These represent the disasters that can upset capital projects, septic tanks for trailer parks and city management.

ROBERT R. MATTHEWS

1958-1971

THE BOEING COMPANY
Project Engineer

- .. The Boeing Company, As Project Engineer with Boeing, Mr. Matthews developed into a versatile engineer working at the edge of the art of engineering.

Facilities Engineering

- .. Planned, engineered and constructed Boeing's Missile Production Center, a complex of offices, laboratories and production areas. This included clean room areas for electronics to paint booths for final processing.
- .. Planned, engineered and constructed the Seattle prototype for BOMARC bases.
- .. Planned and engineered facilities for the Dyna-Soar, a forerunner to the space shuttle that was cancelled.
- .. Planned, engineered, constructed and used the Seattle prototype for Minuteman bases.
- .. Planned, engineered and constructed the Boeing facilities at the Saturn Program Mississippi Test Site.
- .. Planned and engineered the Boeing Space Center at Kent, WA. Served on the Kent City Council and helped in developing city planning.

Program Management

- .. Configuration Control Engineer for SRAM, SATURN V and AWACS. Responsible for engineering changes including identification, accounting and control.
- .. Logistic system engineer for AWACS and TFS. Responsible for establishing overseas basing requirements.
- .. Systems Analysis Engineer for Dyna-Soar and Minuteman. Functional analysis identifying primary and secondary requirements that must be satisfied by design and subsequent hardware development.

ROBERT R. MATTHEWS

Project Management

- .. In addition to construction management, Mr. Matthews was designer for civil aspects of weapon systems primarily in water and fuel distribution systems.
- .. Project Engineer for designing a base near Forteleza, Brasil. The base was not built.
- .. Project Engineer for boeing best, a method to cleanse various materials from water by solvent stripping.
- .. Project Engineer for development of the Boardman Oregon Test Site for testing production and disposal methods.

1954-1958

STEARNS ROGER MANUFACTURING COMPANY
Construction Superintendent

- .. Stearns Roger Manufacturing Company, Full on-site responsibility to manage the following construction projects to completion on time and within budget:
 - .. Ammunition Pier for US Navy in Hampton Roads
 - .. Industrial Waste Treatment Facility for West Virginia Pulp and Paper in Covington, Virginia
 - .. Dry Dock for Bethlehem Steel in Baltimore, MD
 - .. Oil Tanker Unloading Facility for ESSO in Charleston, S.C.
 - .. Sugar Refinery for Dixie Crystals in Savannah, GA
 - .. Marine Railway and Water Supply Canal for International Paper Company in Georgetown, S.C.
 - .. Landship for US Army Transportation Corps in Fort Eustis, Virginia
 - .. Compressor Stations for Mountain States Fuel in Rock Springs and Lyman, Wyoming and Clay Basin, Utah
 - .. Electronic Precipitator for Lone Star Cement Plant at Boetcher, CO
 - .. Ethylene, Ammonia and Ethylene Glycol Plants for Dow Chemical Company at Sarnia, Ontario, Canada

ROBERT R. MATTHEWS

- .. Ore handling Facilities for Kennecott Copper at Hayden, Arizona
- .. Mine Flooding and Evacuation Facilities for Kennecott Copper at Ray, Arizona
- .. Railroad Improvements and Ore Loading Facilities for Kennecott Copper at Ray and Globe, Arizona
- .. Bridge and Tunnel Work for Virginia Department of Highways at Norfolk, Virginia

SECURITY CLEARANCE: SECRET (not since 1971)

PUBLICATIONS: Masters Thesis and various technical papers

AFFILIATIONS: American Water Works Association
Water Pollution Control Federation

LICENSED PROFESSIONAL ENGINEER:

Massachusetts

New York

Illinois

Washington

ALBERTO DELLOCA

POSITION:

ACCOUNTING MANAGER

EDUCATION:

MASTER DEGREE IN PUBLIC ACCOUNTING. 6/75
University of Buenos Aires Argentina.
Completed six year degree program

ASSOCIATE DEGREE IN MARKETING 12/71
Social Communication College of Argentina.
Buenos Aires. Argentina.
Completed three year college degree program.

National Economy, Argentine 12/76
Association of Economists.
Completed one year study program.

International Economy, Argentine 12/77
Association of Economists.
Completed one year study program.

Corporate and Individual Taxes. 11/78
Argentine Society of Tax Accountants.
Completed one year specialized tax
training program.

Basic Programming, MAI Basic Four, 12/80
Argentina
Completed one year computer language
program.

Fortran Programming 7/81
Catholic University of Argentina.
Completed three month college-level
computer language program

Free Enterprise Economy, 10/85
Center of Liberty Studies, Argentina.
Completed two year study program.

PROFESSIONAL EXPERTISE:

- .. 20 Years Experience in Public Accountancy.
- .. 18 Years Experience in Tax Practice.
- .. 15 Years Experience in Data Processing and Systems Analysis.
- .. 14 Years Experience in Cost Analysis.
- .. 12 Years Experience in Software Development.
- .. 11 Years Experience in Teaching.

ALBERTO DELLOCA

- .. 10 Years Experience in Management Advisory.
- .. 10 Years Experience in Financial and Economic Analysis.
- .. 8 Years Experience in Marketing.

KEY ACCOMPLISHMENTS:

- .. Successfully managed a Corporation in a critical national economic environment.
- .. Implementation of several integrated computerized systems.
- .. Implementation of Cost and Control Systems.

TECHNICAL EXPERIENCE:

HARDWARE: IEM /34, MAI BASIC FOUR SYSTEM 410, MAI BASIC FOUR SYSTEM 600, IEM PC, TRS SERIES I, III & IV, TANDY COMPAQ.

OPERATING SYSTEM: OS/VS, CPM, MS-DOS, TRS-DOS, PC-DOS, BUSINESS BASIC.

LANGUAGES: COBOL, FORTRAN, BASIC, LOTUS, ASSEMBLER.

EXPERIENCE SUMMARY

1987 TO Present WILSON HILL ASSOCIATES, INC.
Accounting Manager.

- .. Wilson Hill Associates, Inc., Directs the accounts payable and accounts receivable efforts, directs the accounting programs, computer billing, accounting and reporting, directs the staff in collection of bills, maintains the accounts, invests funds, maintains cash flow, prepares monthly and annual reports, contact point for annual audit, issues purchase orders, including negotiations of open accounts, contact for public on all bills and charges, is responsible for payroll, inventory and stock control. Administers budget controls, insurance programs and retirement benefits, prepares subcontracts and maintenance contracts, maintains the contract compliance files. Does other related work required.

ALBERTO DELLOCA

1985 - 1987

BORGAN GROUP, INC.
General Manager

- .. Borgan Group, Inc., Day to day administration and management of a four tiered corporation with diverse interest. The products manufactured and services performed by the four company units comprising the group were: Tissue Paper Manufacturing, Temporary Personnel Services, Real Estate Service and Home Electronics Sales. Analysis, Design and Development of an integrated system in each different corporation and the consolidated information. Implementation of an Internal Audit Procedures for every entity.

1978 - 1985

I.M.P.A., INC.
President

- .. I.M.P.A., Inc., The third most important aluminum manufacturer company in Argentina. Products manufactured included: tubes for toothpaste, paper rolls, multiple foil for special packaging, alloy sheets and soda cans.

President and Treasurer (1984 - 1985) - Functioned as CEO and CFO.

Treasurer and Accounting Director (1982 - 1984) - In charge of all administrative areas: The same responsibilities as the Accounting Manager plus; Personnel, Payroll, Financial Planning, Budget, Internal Audit.

Accounting Manager (1979-1982) - In charge of Accounting, Costs, Accounts Payable, Accounts Receivable and MIS.

System Analyst (1978 - 1979) - Analysis, Design and Development of a new computerized system for all activities (sales, purchase, Accounts Receivable, Accounts Payable, Payroll, Costs, Production Planning and Control, Inventories, General Accounting, Financial Management System, Financial Statements Adjusted for Inflation Effects.)

1976 - 1983

TRAVAGLINI, DELLOCA & ASSOCIATES
Partner

- .. Travaglini, Delloca & Associates, Accounting firm for small and medium business, with more than fifty clients advised in different areas, such as Taxes, Bookkeeping, Audit Systems, Costs and Management.

ALBERTO DELLOCA

1973 - 1976

CABSHA, INC.
Cost Analyst

- .. Cabsha, Inc., Performed unit and final pricing cost accountant functions for this Chocolate manufacturer. Analysis, Design and Implementation of a Cost System useful to make corporate decisions as well as to inform before the Governmental Price Control Office.

1970-1973

JUAN CINCOTTA, INC.
Internal Auditor

- .. Juan Cincotta, Inc., This in one of the most important retailers in the tire market in Argentina. Operative and Accounting Audit over 35 stores.

1967 - 1969

C.I.B.A., INC.
Staff Accountant

- .. C.I.B.A. Inc., Performed bookkeeping tasks for this industrial corporation.

TEACHING EXPERIENCE:

1987 to Present

ROXBURY COMMUNITY COLLEGE, BOSTON, MASSACHUSETTS.
Course: Introduction to Data Processing.

1977 - 1983

CATHOLIC UNIVERSITY OF ARGENTINA, BUENOS AIRES,
ARGENTINA.
Courses: Principles of Economic Science.
Accounting.
Legal Accounting Seminar.

1975 - 1978

UNIVERSITY OF BUENOS AIRES, BUENOS AIRES, ARGENTINA.
Courses: Principles of Administration.
Accounting II.

PUBLICATIONS:

PRINCIPLES OF ADMINISTRATION, Catholic University of Argentina, February, 1977

AFFILIATIONS:

Buenos Aires Society of Certified Public Accountants.
Argentine Institute of Public Accountants.
Argentine Association of Economists.
Argentine Society of Tax Accountants.
Center of Liberty Studies.
Massachusetts Association of Teachers.

ALBERTO DELLOCA

REGISTRATION: Certified Public Accountant. #81-212, Buenos Aires
Society of Professionals in Economic Science.

RAUL H. ONTANO

POSITION: PROJECT ENGINEER

EDUCATION:

Post Graduate Studies:

Waterproofing and Roofing Systems Course 8/86
Sika Argentina, Inc.
Buenos Aires, Argentina

Solar Energy as applied to Architecture 12/84
Central Society of Architects
Buenos Aires, Argentina

Home Development Course 5/81
Central Society of Architects
Buenos Aires, Argentina

Construction Supervision Program 11/80
Central Society of Architects
Buenos Aires, Argentina

Graduate Studies:

U. S. Equivalent Master's Degree 2/77
School of Architecture
University of Buenos Aires, Argentina

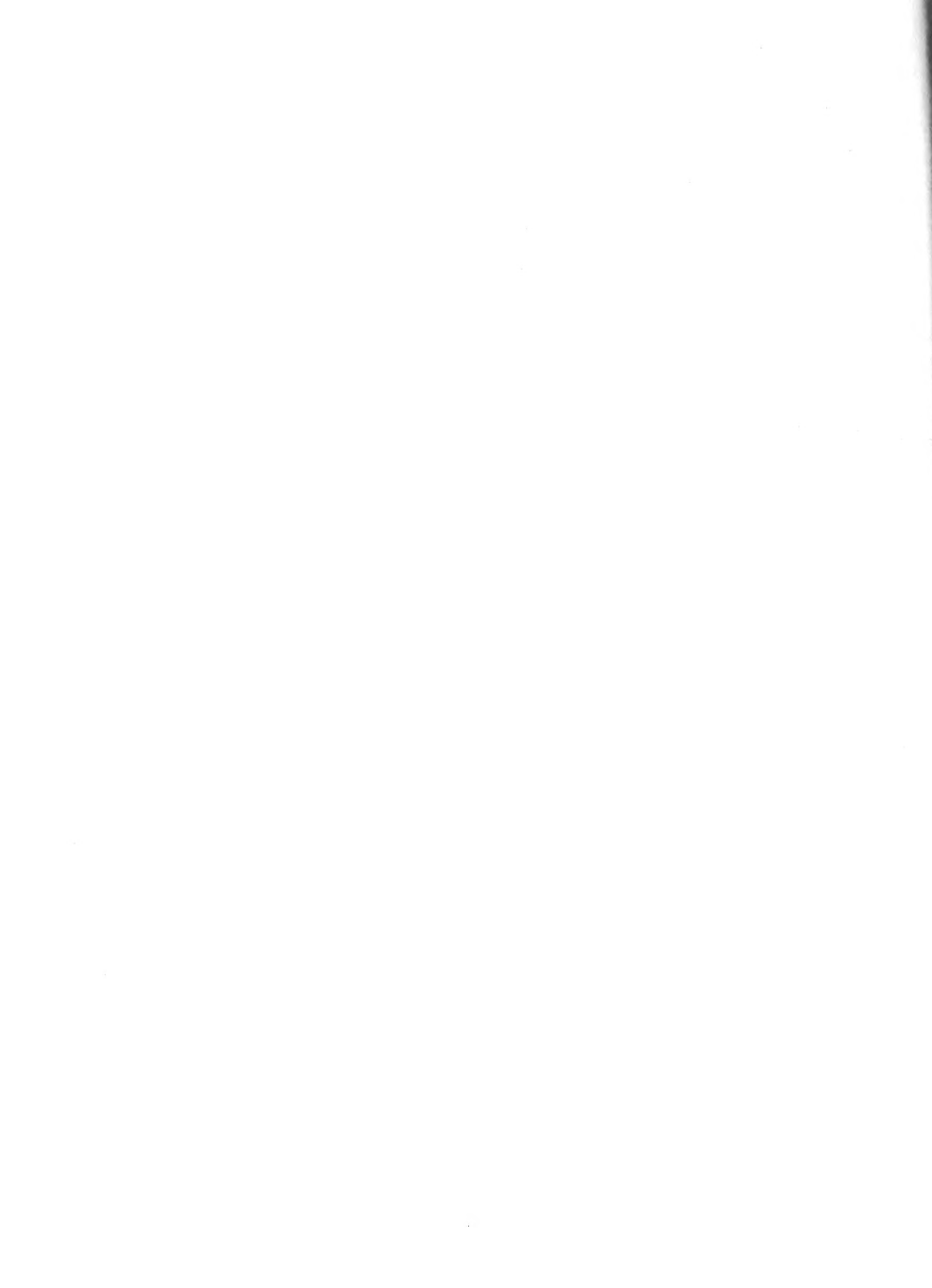
- Six Year Study Program

- Coursework included both Architectural and Engineering subjects.

U. S. Equivalent Associate's Degree 12/70
Construction Engineering
University of Technology, Buenos Aires, Argentina

- Two Year Prerequisite Study Program

- Construction Technology and Materials



RAUL H. ONTANO

EXPERIENCE SUMMARY

1987 to Present

WILSON HILL ASSOCIATES, INC.
Project Engineer

- .. Wilson Hill Associates, Inc. - Over-sees various projects that are going on in the office. Does some drafting of various types of drawings. Proof reads major reports before they leave the office. Works closely with the Chief Draftsman and the other Drafting Personnel. Performs Architectural drawings and renderings for various project.

1987 to Present

URBAN DESIGNERS AND CITY PLANNERS
Job Captain

- .. Urban Designers and City Planners - Performs Architectural drawings and renderings for various projects. At present is partly in charge of studying the renovations to be done on approximately 200 different buildings, both historical and new, property of Massachusetts State Government. The study consists of physical analysis for preservation and reuse, guide of improvements and future renovation.

1986 to 1987

FRANK J. LEVERONE, ENGINEERING CONSULTANT
Architectural Draftsman

1986

PRIVATE PRACTICE
Architectural Engineer

- .. Performed architectural and engineering consulting services to property developers and commercial enterprises.

1982-1985

CITY OF BUENOS AIRES
Project Manager

- .. Directed all construction activities for the construction of a Municipal Elementary School. Responsibilities included supervision of all finished drawings, including scheduling and forecasting.

1980-1982

KOCOUREK ARCHITECTURAL FIRM
(Buenos Aires)
Project Designer

- .. Supervised the firm's technical drawings and details. Some of these projects included: private golf club, condominiums, housing developments and various office buildings.

RAUL H. ONTANO

1979 to 1980

PETERSEN-THIELE-CRUZ, INC.
(Buenos Aires)
Technical Office Manager

.. Managed all construction activities for Phase I of Julio Roca Park Multi-Sports Center. Work included various specific sports area and the construction of a concrete bridge over a small river.

1976 to 1978

FIorentini Concrete Construction Co.
(Buenos Aires)
Building Construction Assistant

1975 to 1976

SOULAS ARCHITECTURAL FIRM
(Buenos Aires)
Junior Architectural Designer

REGISTRATIONS:

Registered Architect, Professional Council of Architecture and Urbanism, Argentina.

Professional Engineer, Professional Council of Engineering, Argentina.

Certified General Contractor, City of Buenos Aires.

WILLIAM E. CHISHOLM

EDUCATION:

Bentley College
Time Study and Cost Estimating

Massachusetts University Extension (MIT)
Mechanics and Strength of Materials
Structural Theory and Stress Analysis

Bethlehem Steel Apprentice School
Structural Design and Material Handling

General Dynamics
CAD/CAM (Computorvision CADDs 4)

EXPERIENCE SUMMARY

1987 to Present WILSON HILL ASSOCIATES, INC.
 Chief Draftsman

- .. Wilson Hill Associates, Inc., In charge of the drafting room. Overseeing the work of the draftsmen. Checking over all drawings before they leave the office. Orders all supplies for the area. Controls what work is done by whom in the drafting room. Also does drafting of various intricate and time consuming drawings.

1983 to 1987 M. ROSENBLATT & SON
 Senior Structural Designer/Checker

- .. M. Rosenblatt & Son, Developed and designed structural drawings of bulkheads, web frames, bents, tanks, trusses, foundations, ladders and stairways, including lists of material and purchase specs.

1983 to 1985 GENERAL DYNAMICS
 Senior Structural Designer/Chargeman

- .. General Dynamics, Supervised machinery arrangement and material handling section. Prepared manpower forecasts plan and work load schedules, responsible directly to chief of engineering. Coordinated liaison with welding and machine shops, foundry, pattern shop and construction sites to expedite the resolution of fabrication and assembly problems. Instructed apprentice school in design procedures.

WILLIAM E. CHISHOLM

1979 to 1983

CHARLES T. MAIN, ENGINEERS
Senior Designer/Coordination Checker

- .. Charles T. Main, Engineers, Developed layout and arrangement of structural foundations for process piping equipment for pulp and paper mills. Coordinated composite interfacing of structure with piping, mechanical, HVAC and electrical systems to resolve interferences.

1977 to 1979

UNITED ENGINEERS & CONSTRUCTORS
Senior Mechanical Designer

- .. United Engineers & Constructors, Designed and developed layout and arrangement of service piping systems including metering stations and expansion loops, instrumentation and pipe hangers and supports for the Harvard Medical Center Total Energy Plant.

JAMES D. TRYTHALL

EDUCATION:

Edward H. White High School, FL 1978-1981
Standard Courses

Honors: Deans List 3.8 G.P.A.

Westside Skills Center, FL 1978-1981
Architectural & Mechanical Drafting

Honors: Deans List 4.0 G.P.A.

OnLine Data, Richardson, Texas 1985
1-800-527-4214
Seminar in Operation of Roof and Floor
Truss Program

Certificate

Integrated Computer Graphics, Atlanta, GA 1986
1-800-227-2182
Seminar in Operation of Roof and Floor
Truss and Layout Program

Certificate

Massasoit Community College 1987
Basic Land Surveying

Certificate

EXPERIENCE SUMMARY

1987 to Present WILSON HILL ASSOCIATES, INC.
Draftsman/Project Engineer

.. Wilson Hill Associates, Inc., Does drafting, operates SiteComp 4 Engineering Program on an HP 310, land planning, road design, septic design. Also, rodman on one of our surveying crews and breakdown surveying notes for various drawings. Also dealt with, in person, various Town Offices and Committees.

1984 to 1985
1982 to 1983

B.F.E., INC.
(Jacksonville, FL)
Designer Draftsman

- .. B.F.E., Inc., Designed and made working drawings of aircraft galley equipment. (i.e. Food Transporters, Tray Carriers, Isle Carts and Other Miscellaneous Equipment). Also did custom designs of Hospital Equipment. The last project was a custom self contained cart to carry a Fiberscope. The cart plugged directly into the wall and had independent switching and circuit breakers.

AUTHOR

Fenway
S135
1988

TITLE
Statement of Capabilities

DATE
LOANED

BORROWER'S NAME

